

SPECIFICATION AMENDMENTS:

✓ Please amend the three paragraphs beginning at page 3, line 5, to read as follows:

A' -- To achieve the above object, a first embodiment of the invention of ~~claim 1~~ is a method of controlling communications among a plurality of electronic devices which communicate by using at least one of a plurality of different types of communication protocols, comprising the steps of: connecting the electronic devices through a multiplex transmission serial communication line which supports communications by a plurality of different frame formats; and allocating one of the frame formats to one type of the communication protocols to enable coexistence of communications among the electronic devices by the plurality of different types of communication protocols on the multiplex transmission serial communication line. --

-- Thus, the structure of the first embodiment ~~claim 1~~ enables to ~~decrease~~ decreasing the number of communication lines among the electronic devices using the plurality of different types of communication protocols and to ~~simplify~~ simplifying the system structure. Where a new electronic device using another communication protocol is to be added, the system can be expanded without requiring major modifications. Therefore, a very flexible system can be configured readily. --

-- The second embodiment of invention of ~~claim 2~~ is a construction machine having therein a plurality of communication-networked electronic

A1
cont.

devices which communicate by using at least one of a plurality of different types of communication protocols, wherein: the electronic devices are connected through a multiplex transmission serial communication line which supports communications by a plurality of different frame formats; and an electronic circuit is provided, which allocates one of the frame formats to one type of the communication protocols to enable coexistence of communications among the electronic devices by the plurality of different types of communication protocols on the multiplex transmission serial communication line. --

Please amend the paragraph beginning at page 4, line 12, to read as follows:

-- Thus, the structure of the second embodiment ~~claim 2~~ enables ~~to decrease~~ decreasing the number of communication lines among the electronic control devices using the plurality of different types of communication protocols in the construction machine and ~~to simplify~~ simplifying the system structure. Where a new electronic control device using another communication protocol is to be added, the system can be expanded without requiring major modifications. Therefore, a very flexible system can be configured readily. --

✓ Please amend the two paragraphs beginning at page 5, line 1, to read as follows:

P2
-- The third embodiment of the invention ~~of claim 3~~ is an electronic circuit in a construction machine having therein a plurality of communication-networked electronic devices which communicate by using at least one of a plurality of different types of communication protocols, wherein: the electronic devices are connected through a multiplex transmission serial communication line which supports communications by a plurality of different frame formats; and one of the frame formats is allocated to one type of the communication protocols to enable coexistence of communications among the electronic devices by the plurality of different types of communication protocols on the multiplex transmission serial communication line. --

-- Thus, the structure of ~~claim 3~~ third embodiment enables enables ~~to decrease~~ decreasing the number of communication lines among the electronic control devices using the plurality of different types of communication protocols in the electronic circuit for the construction machine and ~~to simplify~~ simplifying the system structure. Where a new electronic control device using another communication protocol is to be added, the system can be expanded without requiring major modifications. Therefore, a very flexible system can be configured readily. --

✓ Please amend the two paragraphs beginning at page 6, line 3, to read as follows:

A³ -- In the second and third embodiments of the invention ~~of claim 2 or 3~~, the electronic device comprises data generation means which generates a transmission frame by converting into a frame format allocated in correspondence with the communication protocol when the electronic device sends data of communication protocol used by itself, data transmission means which monitors a state of sending data on the multiplex transmission serial communication line and, when data has not been sent, sends the frame data to the multiplex transmission serial communication line, and data reception means which recognizes compatibility with the communication protocol of the own device in view of a data length of a header portion of the frame data on the multiplex transmission serial communication line. --

-- In the second and third embodiments of the invention ~~of claim 2 or 3~~, at least two lines of first and second lines formed of the aforesaid multiplex transmission serial communication line are disposed in a redundant form, the first line is used for normal communications among the electronic devices, and if the first line fails, the communications among the electronic devices are maintained by switching to the second line. Thus, in case of a line failure, communications among the electronic devices can be maintained by switching the communications to the line as the standby system, thereby enabling to form a redundant structure and to secure high safety [[,]] . --

Please amend the paragraph beginning at page 7, line 1, to read as

follows:

*A3
cont.*

-- And, in the second and third embodiments of the invention ~~of claim 2~~
~~or 3~~, at least two lines of first and second lines formed of the aforesaid
multiplex transmission serial communication line are disposed in a redundant
form, the electronic devices are given priority depending on importance of data
processed by the own device, all the electronic devices are connected to the first
line without depending on the priority, and the electronic device having priority
higher than a predetermined level to the second line. And, the
communications among the electronic devices are always performed by means
of the first line and the second line, and if the second line has a failure, the
communications are maintained by switching to the first line. Thus, while
normally communicating with the traffic on the line lowered, if a failure occurs
on the line having higher importance, communications using the line having
lower importance are made possible, thereby enabling to enhance redundancy.